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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/540,593	06/23/2005	Siebe Tjerk De Zwart	NL030983	9093

24737 7590 03/13/2006

PHILIPS INTELLECTUAL PROPERTY & STANDARDS
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EXAMINER

HOLLINGTON, JERMELE M

ART UNIT	PAPER NUMBER
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2829

DATE MAILED: 03/13/2006

Please find below and/or attached an Office communication concerning this application or proceeding.

1/4 2/1

Office Action Summary	Application No. 10/540,593	Applicant(s) DE ZWART ET AL.	
	Examiner Jermele M. Hollington	Art Unit 2829	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 23 June 2005.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-12 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 1-12 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☒ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on _____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☒ All b) ☐ Some * c) ☐ None of:
1. ☒ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. _____.
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- | | |
|----------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892) | 4) <input type="checkbox"/> Interview Summary (PTO-413) |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | Paper No(s)/Mail Date: _____ |
| 3) <input checked="" type="checkbox"/> Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) | 5) <input type="checkbox"/> Notice of Informal Patent Application (PTO-152) |
| Paper No(s)/Mail Date <u>06/05/11/05</u> | 6) <input type="checkbox"/> Other: _____ |

DETAILED ACTION

Specification

1. The disclosure is objected to because of the following informalities: on page 1, above line 1, insert --This application is a 371 international stage of PCT/IB03/05820 file on December 5, 2003--.

Appropriate correction is required.

Information Disclosure Statement

2. The information disclosure statement (IDS) submitted on June 23, 2005 and November 28, 2005 was considered by the examiner. However, the examiner will like to note that references have been crossed out due to duplication in both IDS.

Claim Rejections - 35 USC § 102

3. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

4. Claims 1-12 are rejected under 35 U.S.C. 102(e) as being anticipated by Hirakata et al (6636190).

Regarding claim 1, Hirakata et al disclose [see Figs. 1-3B] a display device (PNL) comprising a plurality of pixels [not number but see col. 9, line 66-col. 10, line 8], a light source (light source 10), and addressing means (combination of driver elements 31A and 32A and lamp 8) for coupling a selected pixel to said light source (10) to thereby emit light, said addressing

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means (31A, 32A, and 8) being arranged to address each pixel using pulse-width modulation (PWM-Ctrl shown in Fig 5), characterized by means (optical sheet 4) for amplitude modulating the intensity of said light source (10)

Regarding claim 2, Hirakata et al disclose said addressing means (31A, 32A and 8) are adapted to regulate when each pixel is switched on and/or when each pixel is switched off during a line time.

Regarding claim 3, Hirakata et al disclose a light guide (light guide 11) directs light from the light source (10) to all pixels, and wherein said addressing means (31A and 32A) comprises a first and a second orthogonal set of electrodes, said pixels being defined by intersections of said electrodes, and wherein light from the light guide (11) is coupled to a pixel by applying voltage pulses (via VMT) to the electrodes.

Regarding claim 4, Hirakata et al disclose said first set is arranged to receive a constant select signal, and said second set is arranged to receive a pulse-width modulated select signal [via PWM-Ctrl in Fig. 5].

Regarding claim 5, Hirakata et al disclose said addressing means (31A, 32A and 8) comprises a set of light guides (11), each for directing light from the light source (10) to one column of pixels, and a set of electrodes, each arranged to apply voltage [via VMT] to one row of pixels, thereby coupling said row to the light guides (10)

Regarding claim 6, Hirakata et al disclose means (lamp 8) for pulse-width modulating said light guides (10).

Regarding claim 7, Hirakata et al disclose (Original) a method for driving a display device (PNL) having a plurality of pixels [not number but see col. 9, line 66-col. 10, line 8]; a

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light source (light source 10) and addressing means (driver elements 31A, 32A and lamp 8) for coupling a selected pixel to said light source (10) to thereby emit light, comprising: pulse-width modulating said addressing means [via PWM-Ctrl], characterized in amplitude modulating the intensity of said light source (10) [via optical sheet 4].

Regarding claim 8, Hirakata et al disclose said source (10) intensity is increased from a threshold value to a maximum value during a line period (see Figs. 6-18).

Regarding claim 9, Hirakata et al disclose the amplitude curve of said source (10) intensity is alternated between consecutive line periods (see Figs. 6-18).

Regarding claim 10, Hirakata et al disclose said source (10) intensity is increased from a threshold value to a maximum value during one line period and decreased from said maximum value to said threshold value during the next consecutive line period (see Figs. 6-18).

Regarding claim 11, Hirakata et al disclose the amplitude curve of said source (10) intensity is alternated between consecutive frames (see Figs. 6-18).

Regarding claim 12, Hirakata et al disclose said pulse-width modulating [via PWM-Ctrl] includes regulating when each pixel is switched on and/or when each pixel is switched off during a line time.

Conclusion

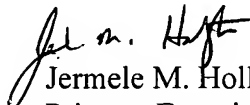
5. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. See PTO-892 for details.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Jermele M. Hollington whose telephone number is (571) 272-1960. The examiner can normally be reached on M-F (9:00-4:30 EST) First Friday Off.

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If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Wael Fahmy can be reached on (517) 272-1705. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).


Jermele M. Hollington
Primary Examiner
Art Unit 2829

JMH
March 8, 2006